Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

- 1- (Currently Amended) A planar antenna with diversity of radiation realised on a substrate comprising a slot of closed shape dimensioned to operate on a mode higher than a fundamental mode and at least one feed-line coupled to said slot according to a line/slot transition, the perimeter of the slot being selected such that $p=k\lambda s$ where p is the perimeter of the slot, k is an integer greater than $\frac{1}{2}$ or equal to $\frac{1}{2}$ and $\frac{1}{2}$ is the guided wavelength in the slot, said antenna comprising a first feed-line coupled in a zone of the slot forming anfirst open circuit and a second feed-line placed at a distance $d=(2n+1) \frac{1}{2} s/4$ from said first line, where n is an integer greater than or equal to zero, said second feed line being coupled in a zone of the slot forming a first short-circuit, so that two complementary radiation patterns are obtained depending on the feed line selected for the access.
- 2 (Currently Amended) The antenna of claim 1, wherein each-the first and second feed-lines terminates in ansecond and third open circuits and is are each coupled to the slot according to a line/slot transition, the length of each feed line after the line/slot transition being equal to $(2k'+1)\lambda m/4$ where λm is the guided wavelength under-in the feed line and k' is a positive or null integer.
- 3 (Currently Amended) The antenna of claim 1, wherein each feed-line is coupled to the slot according to a line/slot transition with a microstrip line terminated by a second short-circuit, the length of each feed line after the line/slot transition being equal to k''\(\lambda\)m/ where \(\lambda\)m is the guided wavelength under-in the feed line and k'' is a positive or null integer.

4 - (cancelled)

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- 5 (Currently Amended) The antenna of claim 1, wherein the feed-lines are realised in microstrip technology- or in coplanar technology- or by a coaxial cable.
- 6 (Previously Presented) The antenna of claim 1, wherein the shape of the slot is an annular, square, rectangular, polygonal shape or is in a clover leaf form.
- 7 (Previously Presented) The antenna of claim 6, wherein the slot is of rectangular shape and the feed-lines are equidistant from an axis of symmetry of the slot.
- 8 (Previously Presented) The antenna of claim 6, wherein the slot is of rectangular shape and one of the feed-lines is positioned according to an axis of symmetry of the slot.
- 9 (Previously Presented) The antenna of the claim 1, where the feed lines are connected to a transmission/reception means enabling a diversity of reception.
- 10 (New) A planar antenna with diversity of radiation realised on a substrate comprising a slot of closed shape dimensioned to operate on a mode higher than a fundamental mode and at least one feed-line coupled to said slot according to a line/slot transition, the perimeter of the slot being selected such that $p = k\lambda s$ where p is the perimeter of the slot, k is an integer greater or equal to 2 and λs is the guided wavelength in the slot, said antenna comprising a first feed-line coupled in a zone of the slot forming first open circuit and a second feed-line placed at a distance $d = (2n+1) \lambda s/4$ from said first line, where n is an integer greater than or equal to zero, said second feed line being coupled in a zone of the slot forming a first short-circuit, wherein each feed-line is coupled magnetically to the slot according to a tangential line/slot transition.
- 11 (New) The antenna of claim 10, wherein the feed-lines are realised in microstrip technology or in coplanar technology.
- 12 (New) The antenna of claim 10, wherein the shape of the slot is an annular, square, rectangular, polygonal shape or is in a clover leaf form.

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13 – (New) The antenna of claim 12, wherein the slot is of rectangular shape and the feed-lines are equidistant from an axis of symmetry of the slot.

14 – (New) The antenna of claim 10, where the feed lines are connected to a transmission/reception means enabling a diversity of reception.